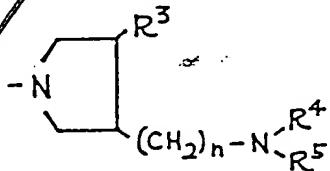


wherein R indicates a hydrogen atom or lower alkyl group, R¹ indicates a lower alkyl group, R² indicates a hydrogen atom, amino group or nitro group, X indicates a halogen atom, and Z indicates a halogen atom, piperazino group, N-methylpiperazino group, 3-methylpiperazino group, 3-hydroxypyrrolidino group, or pyrrolidino group of the following formula,



where, n is 0 or 1, R³ indicates a hydrogen atom or lower alkyl group, R⁴ indicates a hydrogen atom, lower alkyl group, [or] hydroxy-substituted lower alkyl group or halogenated lower alkyl group and R⁵ indicates a hydrogen atom, lower alkyl group, acyl group or alkoxy carbonyl group, the hydrates or the pharmaceutically acceptable acid addition or alkali salts thereof.

3. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 10 cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-7-(10 piperazinyl)-3-quinolinecarboxylic acid.

3. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1-
cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-(4-methyl-
1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid.

4. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1-
cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-(3-methyl-
1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid.

5. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7-(3-
amino-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-
dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

6. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7-
(cis-3-amino-4-methyl-1-pyrrolidinyl)-1-cyclopropyl-6-
fluoro-1,4-dihydro-8-methoxy-4-oxo-3-
quinolinecarboxylic acid.

7. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7-
(trans-3-amino-4-methyl-1-pyrrolidinyl)-1-cyclopropyl-
6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-
quinolinecarboxylic acid.

8. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7-(3-
aminomethyl-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-
dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

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~~15.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-(3-methylaminomethyl-1-pyrrolidinyl)-4-oxo-3-quinolinecarboxylic acid.

~~16.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1-cyclopropyl-7-(3-ethylaminomethyl-1-pyrrolidinyl)-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

~~17.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 5-amino-1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid.

~~18.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 5-amino-7-(3-amino-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

~~19.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in ~~Claim 1~~, wherein said derivative is 7-(3-amino-4-methyl-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

~~20.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in ~~Claim 1~~, wherein said derivative is 1-cyclopropyl-6-fluoro-1,4-dihydro-8-ethoxy-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid.

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